Claims

- 1. A user interface device for electronic apparatus, the device comprising a keypad having a plurality of keys each arranged to actuate a respective switch so as to provide a first type of user input and integrally disposed impedance sensor so as to provide a second type of user input.
- 2. A device according to claim 1, wherein the keypad includes a region provided with said impedance sensor but without a key.
- 3. A device according to claim 1, wherein said keys are comprised in a keymat.
- 4. A device according to claim 3, wherein the impedance sensor is disposed adjacently to the keymat.
 - 5. A device according to claim 3, wherein the keymat and the impedance sensor are coextensive.
 - 6. A device according to claim 1, wherein the keys comprise silicone rubber.
- 7. A device according to claim 1, wherein the keys include a hard coat.
 - 8. A device according to claim 1, wherein the impedance sensor is arranged to detect the presence of a digit.
 - 9. A device according to claim 1, wherein the impedance sensor comprises first and second sensing plates.
- 20 10. A device according to claim 9, wherein the first sensing plate comprises a first set of electrodes.
 - 11. A device according to claim 10, wherein the electrodes are arranged in non-contiguous stripes.

- 12. A device according to claim 10, wherein the electrodes are transparent.
- 13. A device according to claim 10, wherein the electrodes are made from indium-tin-oxide.
- 14. A device according to claim 9, wherein the first sensing plate comprises a substrate.
 - 15. A device according to claim 14, wherein the substrate is substantially transparent.
 - 16. A device according to claim 14, wherein the substrate is made from polyethylene terephthalate.
- 10 17. A device according to claim 10, wherein the second sensing plate comprises a second set of electrodes.
 - 18. A device according to claim 17, wherein the first and second set of electrodes are spaced apart.
- 19. A device according to claim 18, wherein a first member of the first set of electrodes and a first member of the second set of electrodes are arranged to have a mutual capacitance.
 - 20. A device according to claim 19, wherein said members are arranged so to allow the mutual capacitance to change when a digit touches the keypad.
- 21. A device according to claim 1, wherein the impedance sensor is a capacitive sensor.
 - 22. A device according to claim 1, further comprising a light source to illuminate the keypad.

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- 23. A device according to claim 22, wherein the light source is disposed behind the keys.
- 24. A device according to claim 22, wherein the light source is planar.
- 25. A device according to claim 22, wherein the light source is an electroluminescent layer.
 - 26. A device according to claim 1 wherein the first type of user input is input of alphanumeric data.
 - 27. A device according to claim 1 wherein the second type of user input is control of a focus on a display of the electronic apparatus.
- 10 28. Electronic apparatus incorporating a device according to claim 1.
 - 29. Electronic apparatus according to claim 28, which is portable.
 - 30. A mobile telephone handset incorporating a device according to claim 1.
 - 31. An electronic communicator handset incorporating a device according to claim 1.
- 15 32. A portable computer incorporating a device according to claim 1.
 - 33. A method of fabricating a user interface device for electronic apparatus comprising providing a keypad having a plurality of keys each arranged to actuate a respective switch so as to provide a first type of user input and integrally disposing impednace sensor so as to provide a second type of user input.